



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Willard Shutter Company, Inc.
4420 NW 35th Court.
Miami, FL 33142

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade county Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: The Islander Bahama Louver.

APPROVAL DOCUMENT: Drawing No. 12-009, titled "The Islander Bahama Louver" sheets 1 through 5 of 5, prepared by EngCo, Inc., dated January 25, 2012, signed and sealed by Pedro De Figueiredo, P.E., on April 09, 2012 bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews** NOA # 12-0201.06 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, and E-4 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
03/14/2013

NOA No. 13-0219.06
Expiration Date: 03/27/2014
Approval Date: 03/14/2013

Willard Shutter Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0621.08

A. DRAWINGS

1. *Drawing No. 02-045R2, titled "The Islander Bahama Louver" dated 12/30/02 with last revision on 01/29/03, prepared by EngCo, Inc, signed and sealed by P. De Figueiredo PE.*

B. TESTS

1. *Test report on Air Pressure Test per PA 202 of "Willard: Louvered Bahama Architectural Fixture: FBC", prepared by Construction Testing Corporation, report No. 02-049, dated 12/21/02, signed and sealed by Y. G. Kuri PE.*
2. *Test report on Air Pressure Test per PA 202 of "Bahama Shades", prepared by Construction Testing Corporation, report No. 02-004, dated 03/12/02, signed and sealed by C. G. Tyson, PE.*

C. CALCULATION

1. *Product Evaluation and Anchor Verification of Sunshades (Louvers) prepared by EngCo, Inc. on 05/24/02, signed and sealed by P. De Figueiredo, PE.*

D. STATEMENTS.

1. *Letter of Code Compliance and No-Financial Interest issued by Engco, Inc., on 01/06/03, signed and sealed by P. De Figueiredo, PE.*
2. *Letter of Code Compliance and No-Financial Interest issued by William Shutter Company Inc., on 01/07/03, signed and sealed by W. E. Clark.*

E. MATERIAL CERTIFICATION

N/A

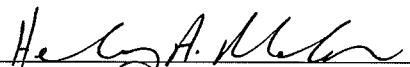
2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0822.07

A. DRAWINGS

1. *Drawings prepared by EngCo, Inc. titled "The Islander Bahama Louver", Drawing No. 05-267, sheets 1 to 4 of 4, dated 08/17/05 with no revisions signed and sealed by P. De Figueiredo, P.E.*

B. TESTS

1. *Test report on Air Pressure Test per PA 202 of "Willard: Louvered Bahama Architectural Fixture: FBC", prepared by Construction Testing Corporation, report No. 02-049, dated 12/21/02, signed and sealed by Y. G. Kuri PE.*
2. *Test report on Air Pressure Test per PA 202 of "Bahama Shades", prepared by Construction Testing Corporation, report No. 02-004, dated 03/12/02, signed and sealed by C. G. Tyson, PE.*



**Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor**

NOA No. 13-0219.06

Expiration Date: 03/27/2014

Approval Date: 03/14/2013

Willard Shutter Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATION

1. *Product Evaluation and Anchor Verification of Sunshades (Louvers) prepared by EngCo, Inc. on 05/24/02, signed and sealed by P. De Figueiredo, PE.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. STATEMENTS.

1. *Letter of Code Compliance and No-Financial Interest issued by Engco, Inc., on 01/06/03, signed and sealed by P. De Figueiredo, P.E.*
2. *Letter of Code Compliance and No-Financial Interest issued by William Shutter Company Inc., on 01/07/03, signed and sealed by W. E. Clark.*
3. *Letter of Code Compliance issued by EngCo, Inc., on 08/17/05, signed and sealed by P. De Figueiredo, P.E.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-1219.08

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

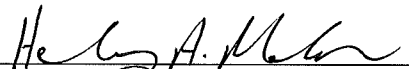
4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0528.02

A. DRAWINGS

1. *Drawing No. 09-044, titled "The Islander Bahama Louver" sheets 1 through 5 of 5, prepared by EngCo, Inc., dated May 01, 2009, signed and sealed by Pedro De Figueiredo, P.E., on September 17, 2009.*

B. TESTS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 13-0219.06
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. *Product Evaluation and Anchor Verification of Sunshades (Louvers) prepared by EngCo, Inc. on 05/05/09, to comply with the FBC 2007, signed and sealed by P. De Figueiredo, PE.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS.

1. *Letter of Code Compliance with the FBC 2007 and No-Financial Interest issued by Engco, Inc., on 05/05/09, signed and sealed by P. De Figueiredo, P.E.*

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0201.06

A. DRAWINGS

1. *Drawing No. 12-009, titled "The Islander Bahama Louver" sheets 1 through 5 of 5, prepared by EngCo, Inc., dated January 25, 2012, signed and sealed by Pedro De Figueiredo, P.E., on April 09, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

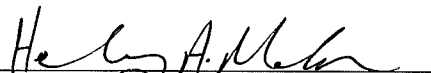
1. *By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS.

1. *Letter of Code Compliance with the FBC 2010 and No-Financial Interest issued by Engco, Inc., on 01/25/12, signed and sealed by P. De Figueiredo, P.E.*



Helmy A. Makar, P.E., M.S.
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Willard Shutter Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

6. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

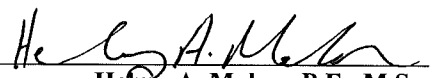
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS.

1. *Letter of Code Compliance with the FBC 2010 and request for one year renewal issued by Engco, Inc., on 02/08/13, signed and sealed by P. De Figueiredo, P.E.*



**Henry A. Makar, P.E., M.S.
Product Control Unit Supervisor**

NOA No. 13-0219.06

Expiration Date: 03/27/2014

Approval Date: 03/14/2013

GENERAL NOTES:

(FLORIDA BUILDING CODE 2010 - HVHZ & non HVHZ)

- 1- DEFINITION: THIS PRODUCT IS A BAHAMAS LOUVER, TESTED UNDER TAS 202 & DESIGNED TO BE USED AS DECORATIVE CLADDING AND PROTECTIVE SUN SCREEN. THIS PRODUCT USE IS LIMITED TO THE ALLOWABLE DESIGNED PRESSURE STATED IN THIS APPROVAL AND MUST NOT BE USED AS AN APPROVED HURRICANE PROTECTION DEVICE.
- 2- CODE: THIS PRODUCT IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2010 EDITION.
- 3- POSTING: A PERMANENT LEGIBLE LABEL SHALL BE PLACED ON THE BACK OF THE BOTTOM FRAME STATING THE FOLLOWING:
- "WILLARD SHUTTERS - MIAMI - FLORIDA
THE ISLANDER BAHAMA LOUVER
DADE COUNTY PRODUCT CONTROL APPROVED
NDA# _____"
- 4- LOADS: THE PROJECT DESIGN PRESSURES, PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER, AS DETERMINED FROM SECTION 1620 AND ASCE 7-10 MUST BE MULTIPLIED BY 0.6 FACTOR. THE PROJECT DESIGN PRESSURES MUST NOT EXCEED THE PRODUCT ALLOWABLE PRESSURES AS PER TAS 202.
- 5- MATERIAL: ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T5 OR AS INDICATED IN THIS SET OF DRAWINGS
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED BY THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING.
- 7- THE CONTRACTOR MUST VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE IN SUSTAINING THE PRODUCT IMPOSED LOADS.
- 8- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL/ METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2010 FBC SECTION 2003.8.4.

TABLE OF CONTENTS:

SHEET	DESCRIPTION
1	GENERAL NOTES & TYPICAL ELEVATIONS AND SECTIONS, ALLOWABLE PRESSURES
2	LOUVERS WITHOUT BRACKETS SECTIONS 1, 2, 3 AND 4
3	LOUVERS WITH BRACKETS SECTIONS 5, 6, 7 AND 8
4	LOUVER COMPONENTS
5	LOUVER ASSEMBLY

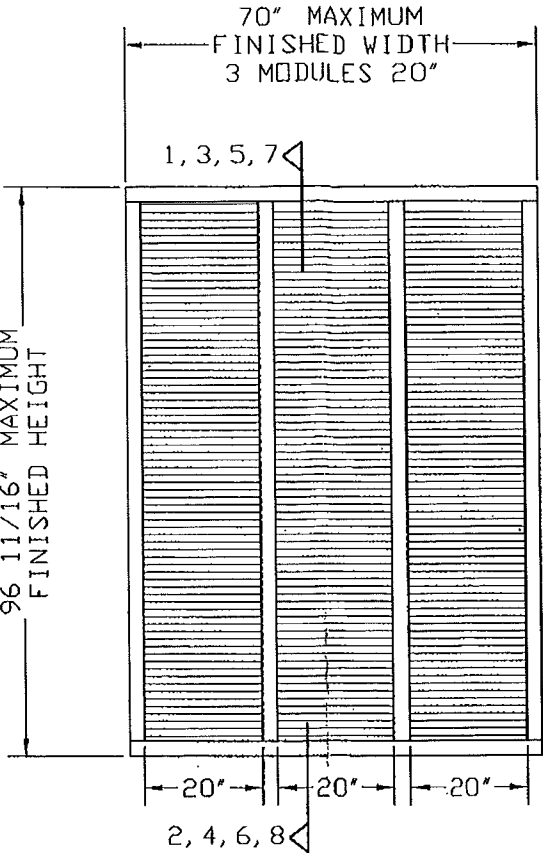
ALLOWABLE PRESSURES:

LOUVER HEIGHT	W/BRACKET		W/OUT BRACKET	
	POS(+)	NEG(-)	POS(+)	NEG(-)
96 11/16"	+40.0	-35.0	+40.0	-40.0
72 1/2"	+52.0	-52.0	+55.5	-55.5
48 3/8"	+76.3	-76.3	+83.2	-90.1

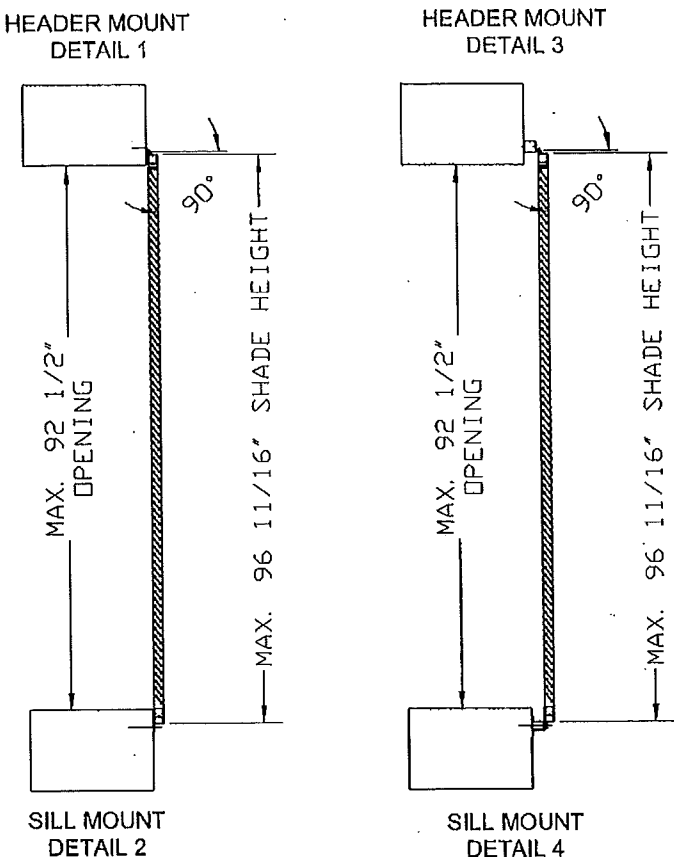
NOTES: 1- USE OF LINEAR INTERPOLATION BETWEEN ABOVE VALUES IS ACCEPTABLE.
2- LOUVERS ARE TO BE INSTALLED IN LOCATION WHERE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM WILL HOUSE WATER RESISTANT/ WATER PROOF EQUIPMENT COMPONENTS OR SUPPLIES.

PRODUCT RENEWED
as complying with the Florida
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By *Helga A. Miller*
Miami Dade Product Control

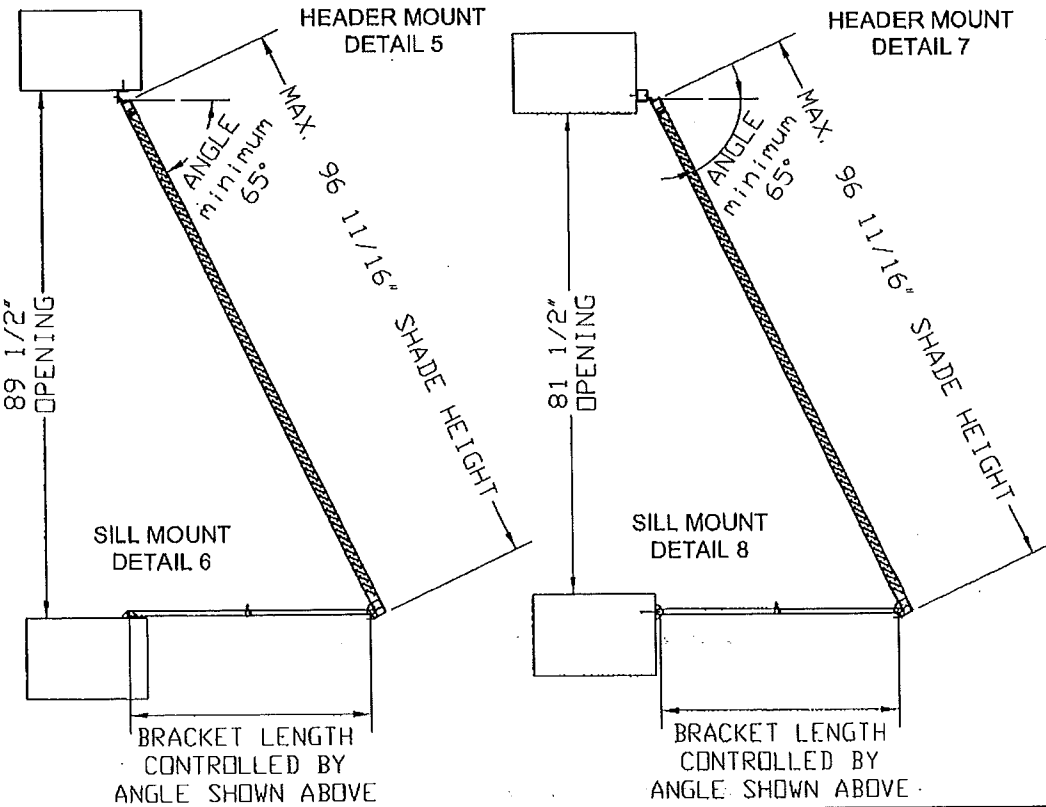
LOUVER FRONT ELEVATION



LOUVER SECTION WITHOUT BRACKETS



LOUVER SECTION WITH BRACKETS



MANUFACTURER:

WILLARD

SHUTTER COMPANY, INC.
4420 NW 35TH COURT
MIAMI, FL 33142
Tel.: (305) 633-0162
Fax.: (305) 638-8634

PRODUCT:

**THE ISLANDER
BAHAMA LOUVER**

Engineering:

EngCo Inc.

CA 8116
5595 Orange Dr. 201
Davie, FL 33314
Tel.: (954) 585-0304
Fax: (954) 585-0305
ENGCO@AOL.COM



MIAMI-DADE BCCO:

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Miami Dade Product Control

Date: 01/25/12
Scale: NA
Design by: PPMF

Drawing Number
12-009

SHEET
1 of 5

MANUFACTURER:
WILLARD
 SHUTTER COMPANY, INC.
 4420 NW 35TH COURT
 MIAMI, FL 33142
 Tel.: (305) 633-0162
 Fax.: (305) 638-8634

PRODUCT:
**THE ISLANDER
 BAHAMA LOUVER**

Engineering:
EngCo Inc.
 CA 8116
 5595 Orange Dr. 201
 Davie, FL 33314
 Tel.: (954) 585-0304
 Fax: (954) 585-0305
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MIAMI-DADE BCCO:

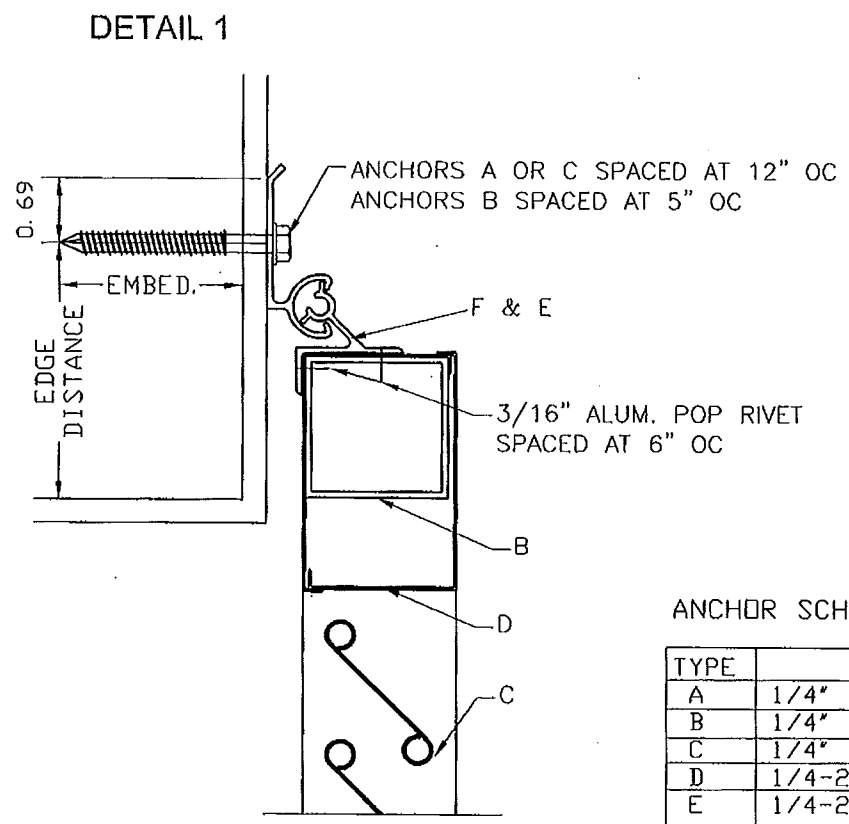
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 13-0219.06
 Expiration Date 03/27/2014
 By Helby A. Miller
 Miami Dade Product Control

Date: 01/25/12
 Scale: NA
 Design by: PPMF

Drawing Number
12-009

SHEET
 2 of 5

LOUVERS WITHOUT BRACKETS
 SECTION DETAILS 1, 2, 3 AND 4

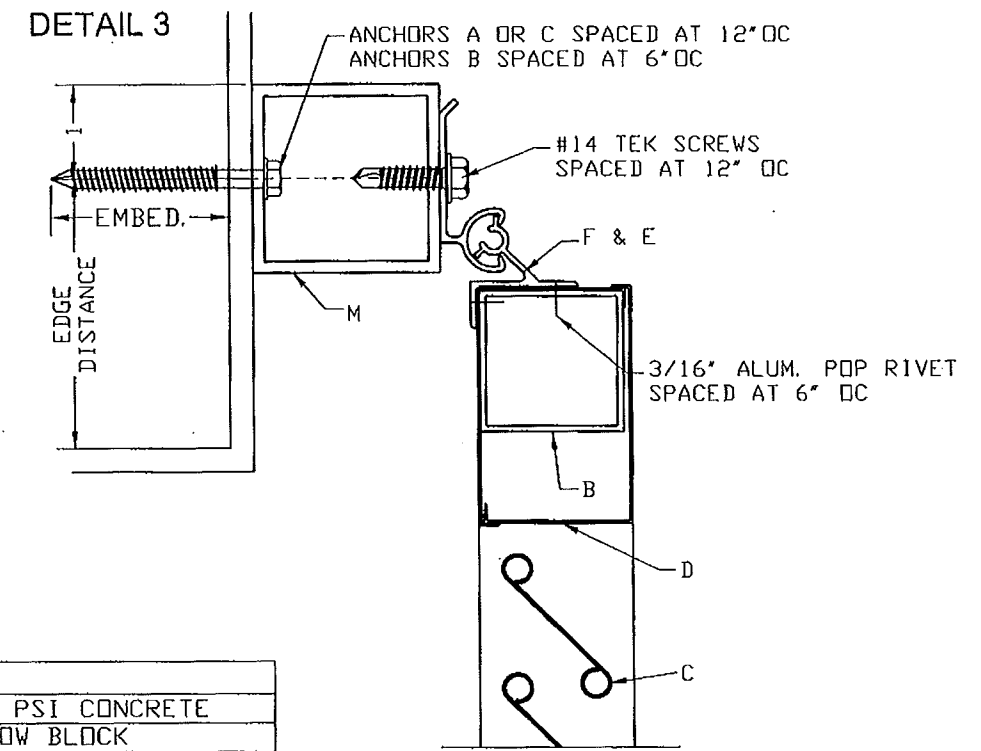
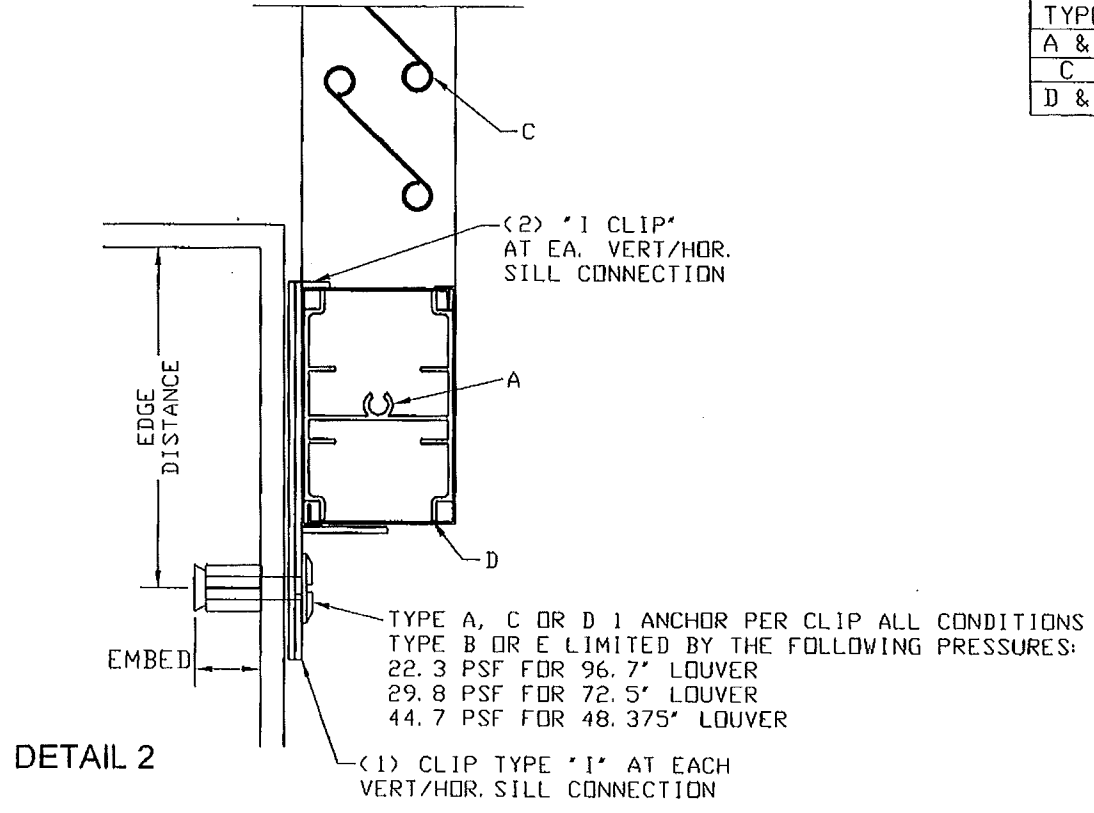


ANCHOR SCHEDULE

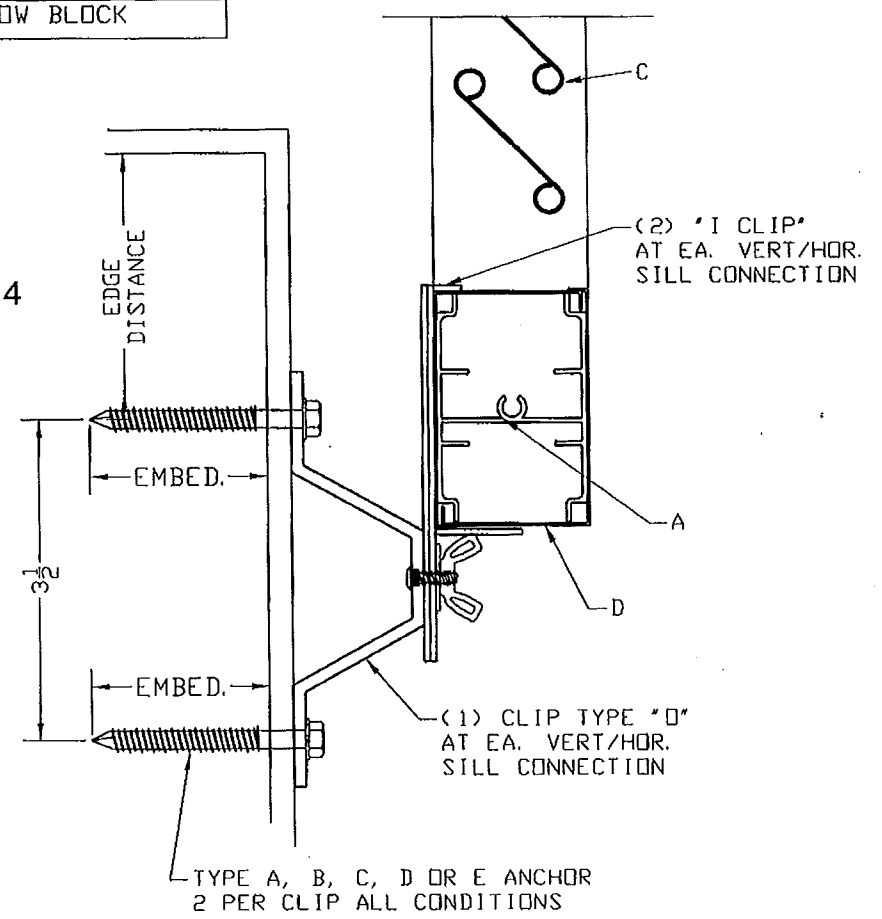
TYPE	DESCRIPTION
A	1/4" TAPCON/ ULTRACON, 1 3/4" EMBEDMENT INTO 3320 PSI CONCRETE
B	1/4" TAPCON/ ULTRACON, 1 1/4" EMBEDMENT INTO HOLLOW BLOCK
C	1/4" TAPCON/ ULTRACON, 1 1/2" EMBEDMENT INTO WOOD (SG=0.55)
D	1/4-20 CALK-IN/ SOLID SETS, 7/8" EMBEDMENT INTO 3000 PSI CONCRETE
E	1/4-20 CALK-IN/ SOLID SETS, 7/8" EMBEDMENT INTO HOLLOW BLOCK

EDGE DISTANCE

TYPE	E. D.
A & B	2-1/2"
C	3/4"
D & E	3"

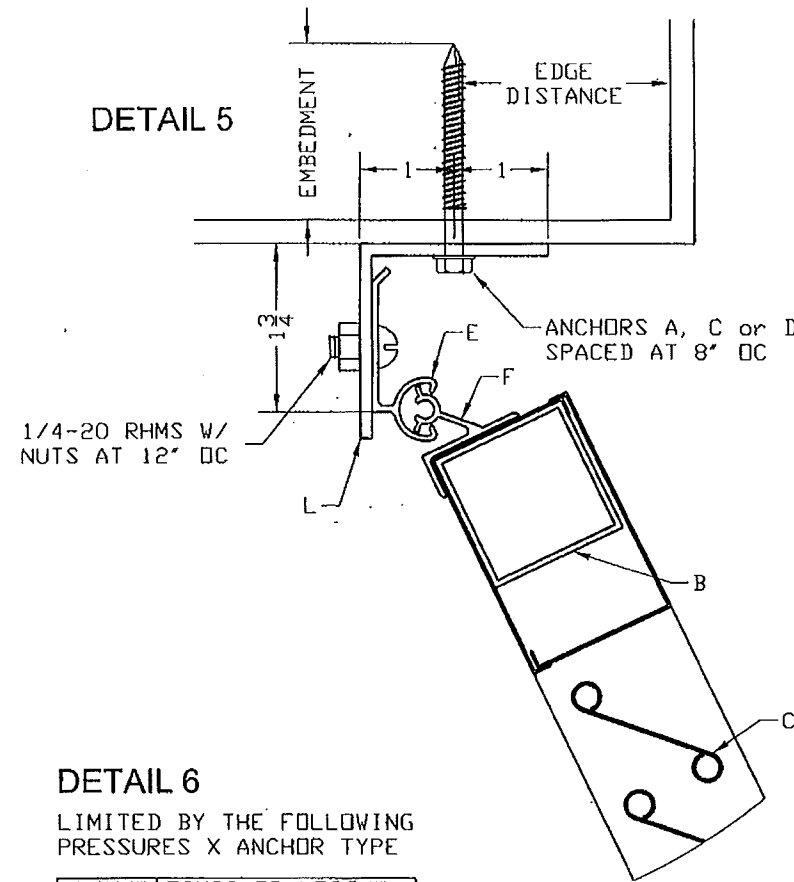


DETAIL 4



PRODUCT RENEWED
 as complying with the Florida
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 Miami Dade Product Control

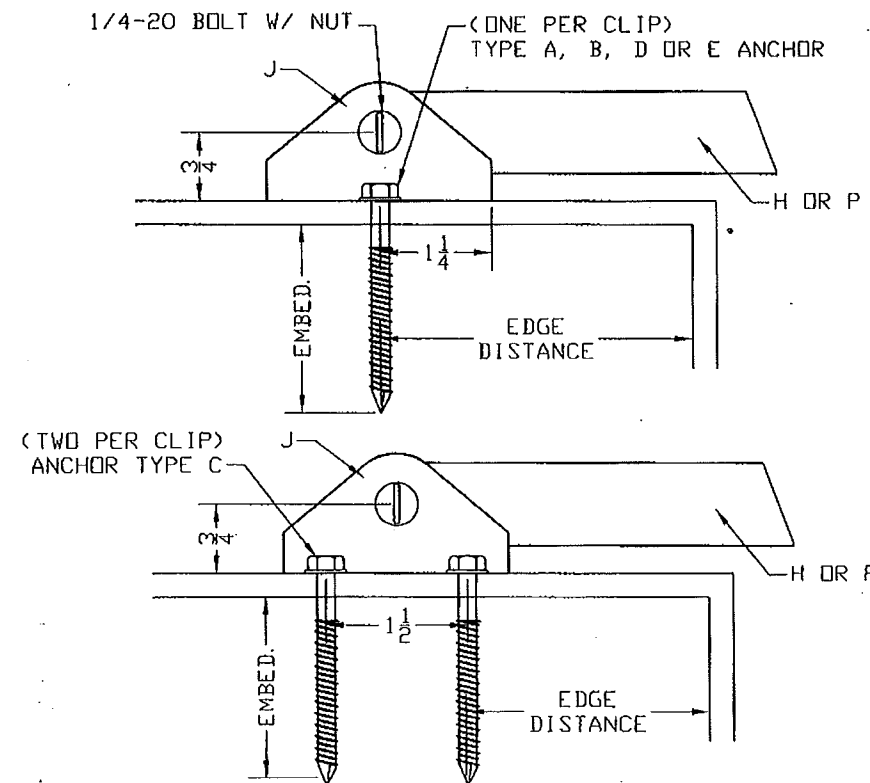
DETAIL 5



DETAIL 6

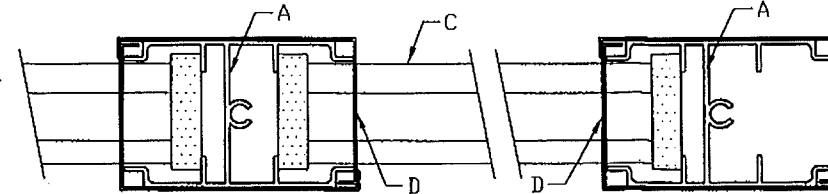
LIMITED BY THE FOLLOWING PRESSURES X ANCHOR TYPE

ANCHOR TYPE	96.7	72.5	48.4
A	32.3	43.1	64.6
B	---	23.6	35.4
C*	40.0	52.0	76.3
D	31.8	42.3	63.5
E	---	22.9	34.3



LOUVERS WITH BRACKETS
SECTION DETAILS 5, 6, 7 AND 8

TYPICAL HORIZONTAL SECTION



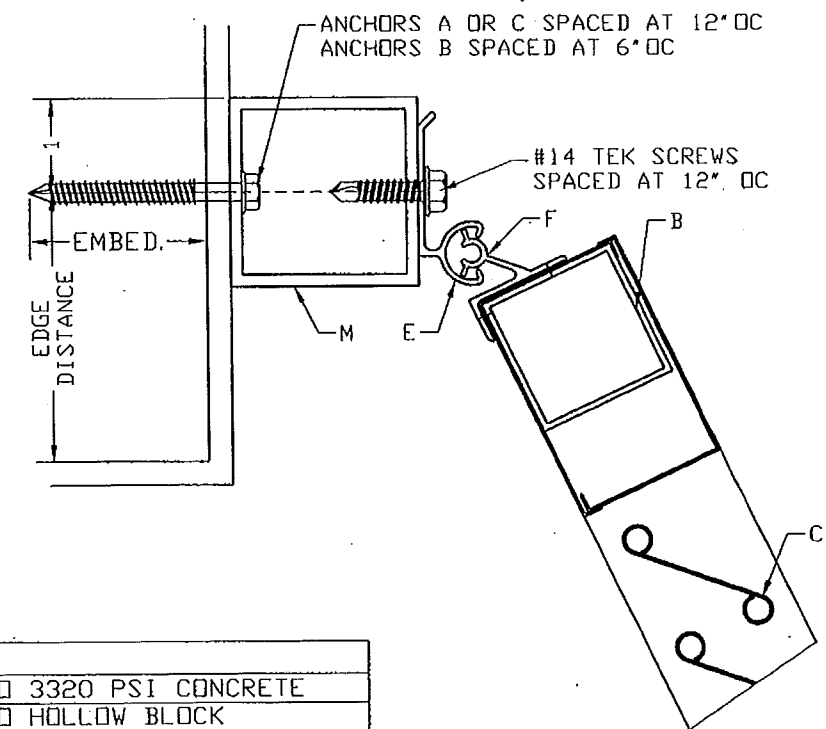
ANCHOR SCHEDULE

TYPE	DESCRIPTION
A	1/4" TAPCON/ ULTRACON, 1 3/4" EMBEDMENT INTO 3320 PSI CONCRETE
B	1/4" TAPCON/ ULTRACON, 1 1/4" EMBEDMENT INTO HOLLOW BLOCK
C	1/4" TAPCON/ ULTRACON, 1 1/2" EMBEDMENT INTO WOOD (SG)=0.55
D	1/4-20 CALK-IN/ SOLID SETS, 7/8" EMBEDMENT INTO 3000 PSI CONCRETE
E	1/4-20 CALK-IN/ SOLID SETS, 7/8" EMBEDMENT INTO HOLLOW BLOCK

EDGE DISTANCE

TYPE	E. D.
A & B	2-1/2"
C	3/4"
D & E	3"

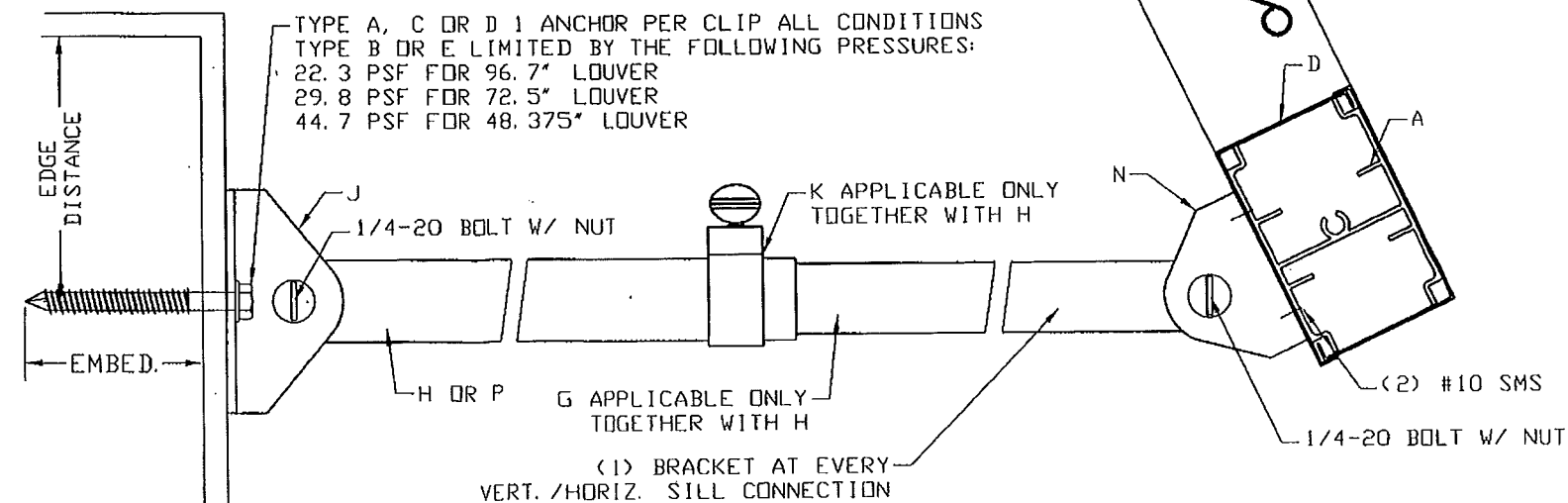
DETAIL 7



PRODUCT RENEWED
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By *Healy A. Miller*
Miami Dade Product Control

DETAIL 8

TYPICAL BRACKET SECTION



MANUFACTURER:
WILLARD
SHUTTER COMPANY, INC.
4420 NW 35TH COURT
MIAMI, FL 33142
Tel.: (305) 633-0162
Fax.: (305) 638-8634

PRODUCT:
**THE ISLANDER
BAHAMA LOUVER**

Engineering:
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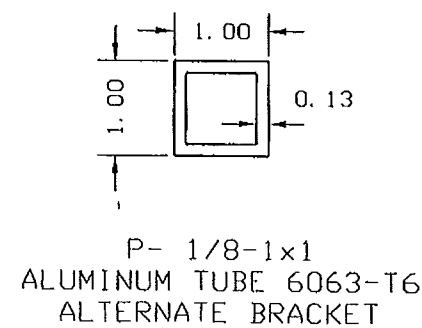
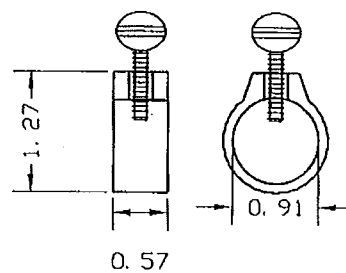
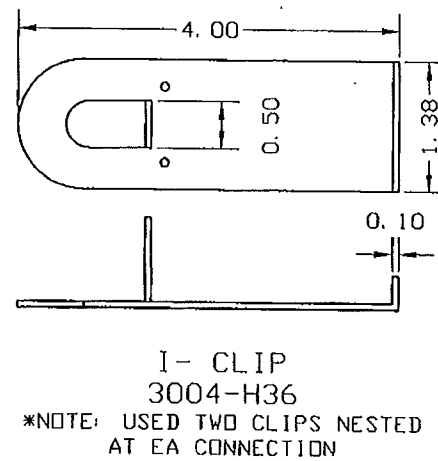
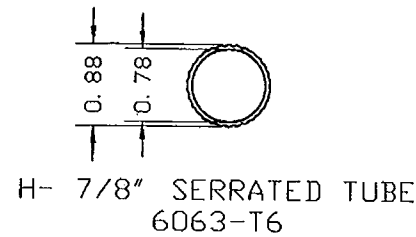
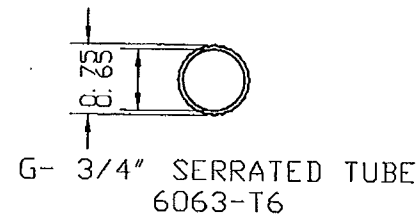
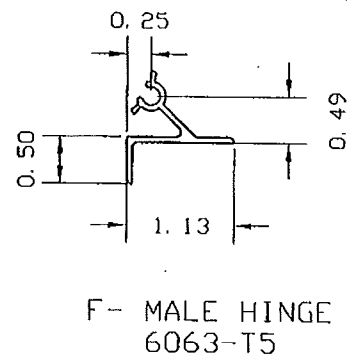
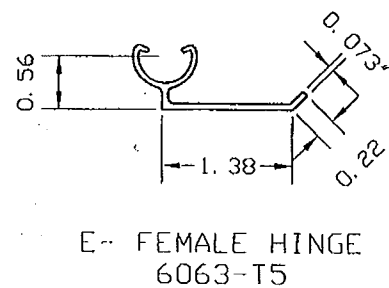
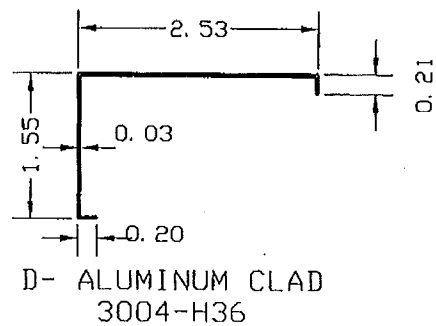
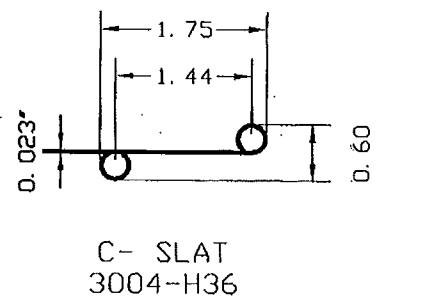
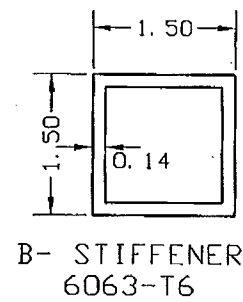
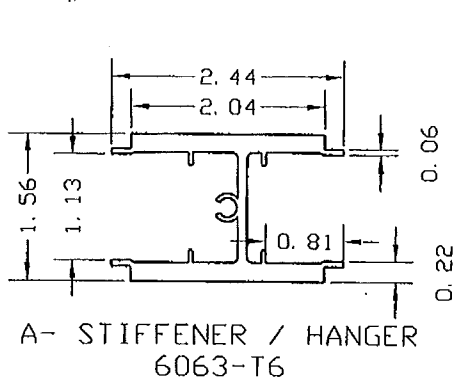
MIAMI-DADE BCCO:

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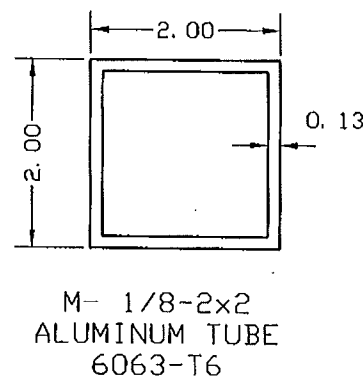
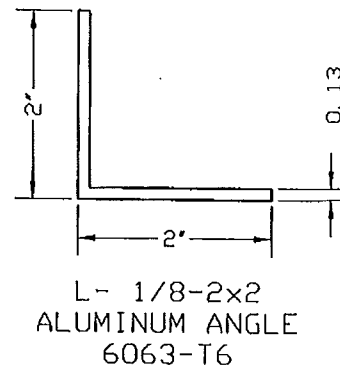
Date: 01/25/12
Scale: NA
Design by: PPMF

Drawing Number
12-009

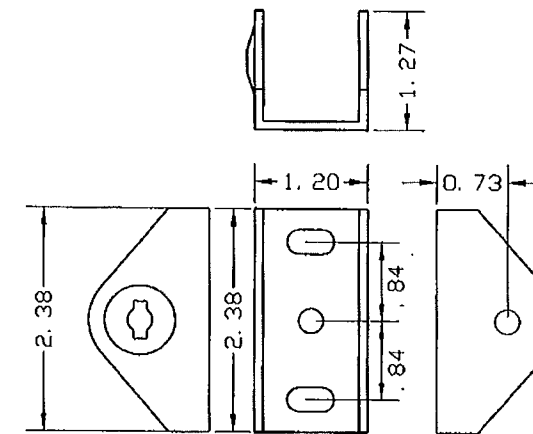
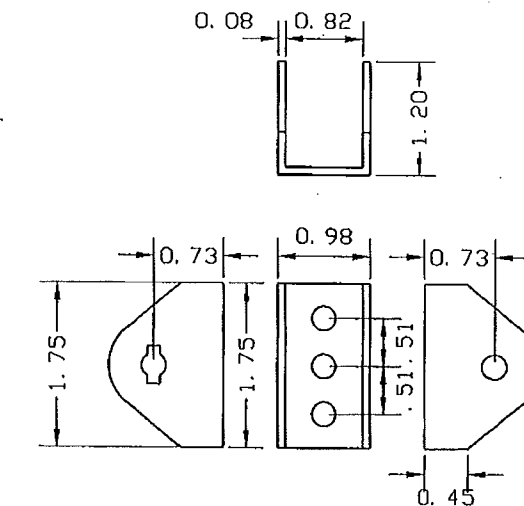
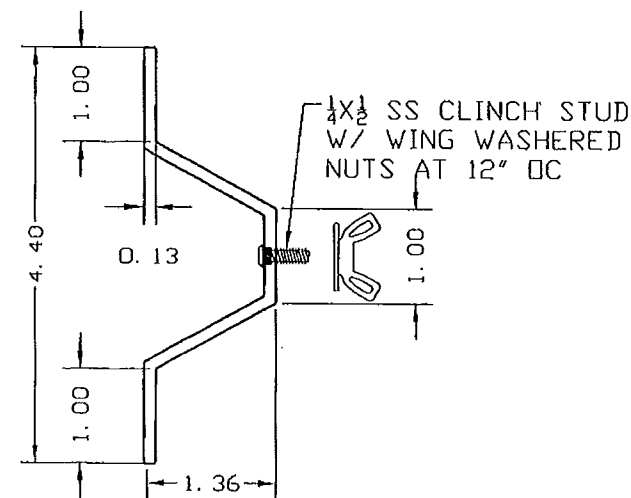
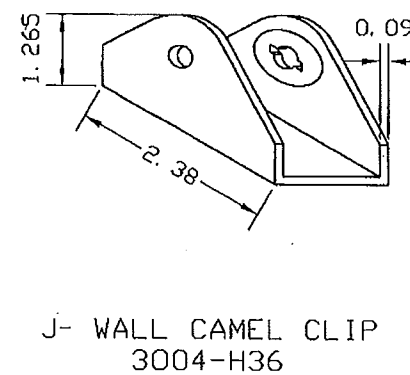
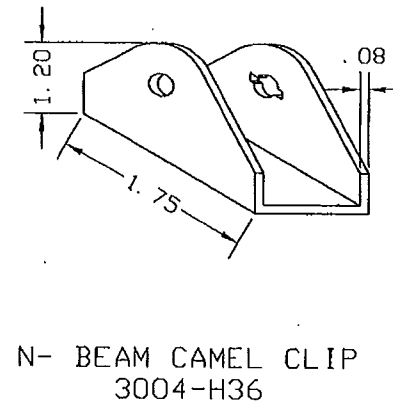
SHEET
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LOUVER COMPONENTS



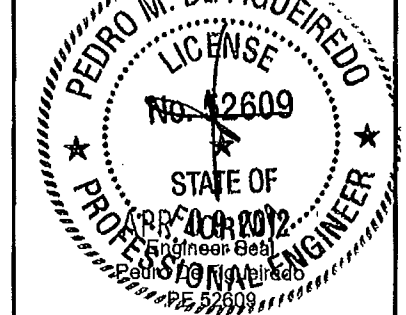
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 13-0219.06
Expiration Date 03/27/2014
By *Hedy A. Nader*
Miami Dade Product Control



MANUFACTURER:
WILLARD
SHUTTER COMPANY, INC.
4420 NW 35TH COURT
MIAMI, FL 33142
Tel.: (305) 633-0162
Fax.: (305) 638-8634

PRODUCT:
**THE ISLANDER
BAHAMA LOUVER**

Engineering:
EngCo Inc.
CA 8116
5595 Orange Dr. 201
Davie, FL 33314
Tel.: (954) 585-0304
Fax: (954) 585-0305
ENGCO@AOL.COM



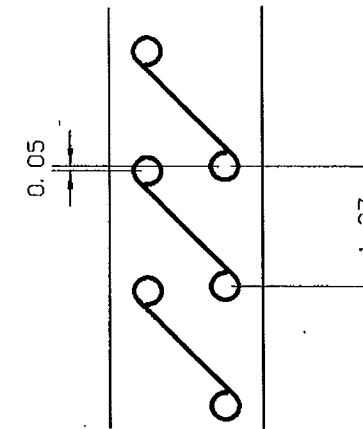
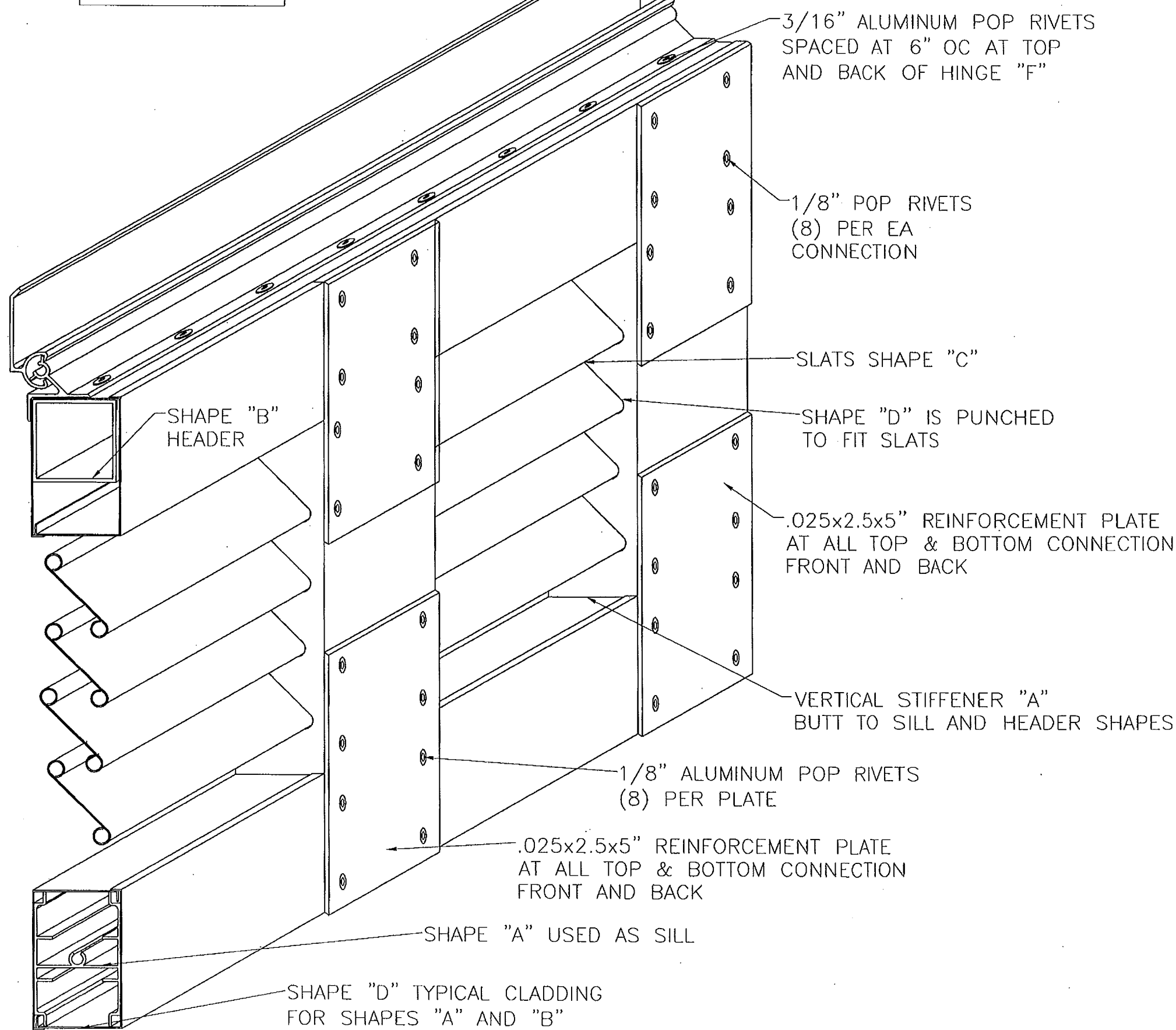
MIAMI-DADE BCCO:
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0201.06
Expiration Date 03/27/2013
By *Hedy A. Nader*
Miami Dade Product Control

Date: 01/25/12
Scale: NA
Design by: PPMF

Drawing Number
12-009

SHEET
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LOUVER ASSEMBLY



MANUFACTURER:
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MIAMI-DADE BCCO:

PRODUCT REVISED
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By *Healy A. Miller*
Miami Dade Product Control

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By *Healy A. Miller*
Miami Dade Product Control

Date: 01/25/12
Scale: NA
Design by: PPMF

Drawing Number
12-009

SHEET
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